

```
semaphore wait, mutex1, mutex2;  
mutex1 = 1; mutex2 = 1; wait = 1;  
int count1, count2; count1 = 0; count2 = 0;
```

```
process P东(){  
    {  
        P(mutex1);  
        count1++;  
        if(count1 == 1)  
            P(wait);  
        V(mutex1);  
        过独木桥;  
    }  
    {  
        P(mutex1);  
        count1--;  
        if(count1 == 0)  
            V(wait);  
        V(mutex1);  
    }  
}
```

```
process P西(){  
    {  
        P(mutex2);  
        count2++;  
        if(count2 == 1)  
            P(wait);  
        V(mutex2);  
        过独木桥;  
    }  
    {  
        P(mutex2);  
        count2--;  
        if(count2 == 0)  
            V(wait);  
        V(mutex2);  
    }  
}
```